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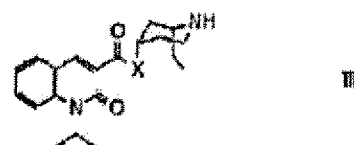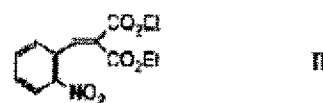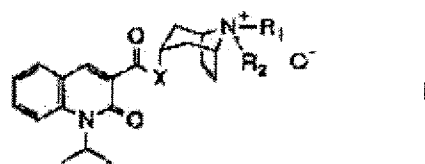YOKOMORI SADAKAZU
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(30)Priority

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(54) QUATERNARY SALT COMPOUND OF QUINOLINECARBOXYLIC ACID

(57)Abstract:

PURPOSE: To obtain a compound having a serotonin 4 receptor stimulating effect and effective for improvement of alimentary symptoms such as heartburn or anorexia caused by chronic gastritis or diabetes or accompanying a sergery such as gastrectomy and therapy of regurgitant esophagitis, spurious intestinal obstruction, onstipation, etc.

CONSTITUTION: A compound of formula I (X is O or imino; R1 and R2 are each a 1 to 15C alkyl or an aralkyl; Q is a halogen or tosylate), e.g. end-N-[8-(n- heptyl)-8-methyl-8-azoniabicyclo[3.2.1]oct-3-yl)1-isopropyl-2-oxo-1,2-dihydro-3- quinolinecarboxamide-bromide. The compound of formula I is synthesized by using a compound of formula II as the starting substance,

conducting reductive ring closure reaction, N-isopropylation, hydrolysis, esterification or amidation and demethylation in order to obtain a compound of formula III, then reacting a compound of the formula R1Q therewith and subsequently further reacting a compound of the formula R2Q therewith.

LEGAL STATUS

[Date of request for examination]

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